

PROGRAM: **Fire Science**

PROGRAM **43.0200**
CIP CODE:

DESCRIPTION: The **Fire Science** program prepares students to perform technical services involved with planning, organizing, researching, directing and controlling functions and processes related to the provision of Fire Science services. An integrated approach to teaching and learning is provided as students develop interpersonal relations, career development skills and technical knowledge, and skills associated with careers in this field. Students completing this program will be prepared to participate in teams, solve problems, think critically and implement effective solutions. The program is designed and delivered as a coherent sequence of experiences using technical instruction, academic foundations, experiential learning, supervised occupational experience and leadership and personal development through the Career and Technical Student Organization, SkillsUSA.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

**Career
Preparation**

The following describes the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All of the Career Preparation state-designated Fire Science standards are addressed in this instructional sequence.

43.0200.10 **Fundamentals of Fire Science:** This course introduces students to careers in Fire Science and prepares students to apply academic, employability and technical knowledge and skills related to common industry standards and practices of Fire Science.

-and-

43.0200.20 **Fire Science - Advanced Applications:** This course prepares students to apply advanced academic and technical knowledge and skills in a variety of settings within Fire Science.

And program may elect to add:

43.0200.75 **Fire Science - Internship:** This course provides students an opportunity to apply previously developed knowledge and skill into a structured work experience within the specific option they have studied. This work experience doesn't necessarily require classroom instruction, may be paid or unpaid, and is available for 12th graders.

-or-

43.0200.80 **Fire Science - Cooperative Education:** This course utilizes cooperative education methodology to combine school-based and supervised work-based learning identified for students within the specific option they have studied.

TEACHER CERTIFICATION REQUIREMENTS FOR THE FIRE SCIENCE PROGRAM	
CAREER PREPARATION: The instructor must be CTE certified according to the following table	
Fire Science	CERTIFICATES
	Types: PCTI, SCTI
Note: <ul style="list-style-type: none"> ▪ Fire Science, 43.0200.70 may be a part of the sequence and the teacher must hold a Cooperative Education Endorsement (CEN). ▪ Teacher/Coordinator 43.0200.75 is not required to have a Cooperative Education Endorsement (CEN). ▪ Teacher/Coordinator 43.0200.80 is required to have a Cooperative Education Endorsement (CEN). 	

CERTIFICATE ABBREVIATIONS FOR THE FIRE SCIENCE PROGRAM	
Certificate Types	
PCTI	Provisional Career and Technical Education Industrial Technology
SCTI	Standard Career and Technical Education Industrial Technology